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APPLICATION NO	FILING D	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,780	10/629,780 07/30/2003		Jose Luis Valero	60019446-2	8257
22879	7590	08/15/2005		EXAMINER	
HEWLET	T PACKARD (COMPANY	NGUYEN, THINH H		
	72400, 3404 E. I TUAL PROPER		ART UNIT	PAPER NUMBER	
FORT COLLINS, CO 80527-2400				2861	
				DATE MAILED: 08/15/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/629,780	VALERO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thinh H. Nguyen	2861				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ☑ This	action is non-final.					
/ 	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 and 8-20 is/are rejected. 7) ☐ Claim(s) 7 is/are objected to. 	 Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-6 and 8-20 is/are rejected. Claim(s) 7 is/are objected to. 					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5/23/05</u>. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite atent Application (PTO-152)				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on May 23, 2005 has been entered.

Claim Objections

2. Claims 17, 19 are objected to because of the following informalities: "a common processor" should have been "a common optical detector". Appropriate correction is recommended.

Claim Rejections - 35 USC § 112

3. Claims 1-9 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The following limitations lack antecedent basis:

"the predetermined pattern" (claim 1, line 8).

Claims 2-9 are rejected as being dependent from the rejected base claim 1.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-2, 4-6, 8-19 are rejected under 35 U.S.C. § 102(e) as being anticipated by Lund et al. (U.S.6,312,082)

Lund (fig.3, see also claims) discloses elements of the instant claimed apparatus and method of detecting fixer fluid on the print media, comprising:

using a fixer printhead (115F) comprising a plurality of fixer nozzles to apply fixer in a plurality of spaced parallel lines (see 305,fig.3) to a region of the media, each line being applied by a respective fixer nozzle;

before or after the application of the fixer (as described as over-print or underprint technique; col.5, lines 39+), applying ink to said region of the media whereby the locations where both fixer and ink are present are optically distinguishable from the locations where only ink is present (col.5, lines 46-53); and

optically detecting the predetermined pattern (as optically sensed by photodetector 211 and 205 of module 201; col.4, lines 63-64).

Re claim 2, wherein the parallel lines are arranged in columns, immediately adjacent nozzles being arranged to print lines in adjacent columns and immediately adjacent lines in the same column being arranged to be printed by nozzles which are

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separated by n further nozzles, wherein n is an integer (fig.3, see space between element 305).

Re claims 4, 6, wherein the period (as disclosed by Allen U.S.5,635,969, col.6, line 1-17 which is incorporated by Lund in the background art) is selected such that bleeding of the fixer and ink substantially does not occur.

Re claim 5 (see Allen above), wherein the steps of applying fixer and ink to said region occur within a period of thirty seconds or less.

Re claims 8, 9, wherein the ink is magenta color and the media is glossy; and wherein the ink is black and the media is plain or bond (col.5, line 37, line 43; see also glossy media described as transparency in Allen).

Re claims 15-20, as described by Lund (col.3, lines 14-15), a common detector connected to a processor (col.4, line 8) besides used to check alignment of fixer pen and ink pen also used to check the operation of the fixer and ink nozzles as described by determining their presence.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 3, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lund in view of Hubbard et al. (U.S.4,907,013)

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Lund discloses elements of the instant claimed subject matter as noted above with the exception of the detector is a line detector.

Hubbard (col.3, line 55 – col.4, line 25) suggests the use of a line detector to detect a failed nozzle of the inkjet printhead, and the nozzle spacing n=3. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use nozzle spacing and a line detector among a plurality of known detectors as suggested by Hubbard in the apparatus of Lund for the purpose of obtaining a particular print resolution and for detecting malfunction nozzle of the printhead.

Allowable Subject Matter

- 8. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. The following is a statement of reasons for the indication of allowable subject matter: the teaching relied upon by the Examiner do not suggest the ink and fixer are applied to the media in an ink/fixer ratio between 2 to 1 and 1 to 2 by volume. These limitations are neither suggested nor taught by the prior art of record, alone or in combination as claimed.

Patent Application Information Retrieval (PAIR)

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Contact Information

11. Any inquiry concerning this communication should be directed to examiner Thinh

Nguyen at telephone number (571) 272-2257. The examiner can generally be reached

Mon-Wed, and Thurs from 9:00A – 5:00P. The official fax phone number for the

organization is (571) 273-8300. The examiner supervisor, Dave Talbott, can also be

reached at (571) 272-1934.

Any inquiry of a general nature or relating to the status of this application should

be directed to the group receptionist whose telephone number is (703) 308-1782.

M

Thinh Nguyen August 9, 2005

Thinh Nguyen
Primary Examiner
Technology Center 2800